

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims.

1. (CURRENTLY AMENDED) A system comprising a processor unit for accessing a memory storing instructions therein that when executed by the processor unit intercepts for intercepting multimedia documents disseminated from a first network, the system ~~being characterized in that it comprises~~ comprising a module for intercepting and processing packets of information each including an identification header and a data body, the packet interception and processing module comprising a first unit means ~~for intercepting packets disseminated from the first network, a unit means~~ for analyzing the headers of packets in order to determine whether a packet under analysis forms part of a connection that has already been set up, a unit means ~~for processing packets recognized as forming part of a connection that has already been set up to determine the identifier of each received packet and to access a storage container where the data present in each received packet is saved, and a unit means~~ for creating an automaton for processing the received packet belonging to a new connection if the packet header analyzer means show unit shows that a packet under analysis constitutes a request for a new connection, the ~~means unit~~ for creating an automaton ~~comprise in particular comprises~~ a unit means ~~for creating a new storage container for containing the resources needed for storing and managing the data produced by the means unit for processing packets associated with the new connection, a triplet comprising <identifier, connection state flag, storage container> being created and being associated with each connection by said means unit for creating an automaton, and in that it further comprises said system further comprising a unit means~~ for analyzing the content of data stored in the containers, for recognizing the protocol used from a set of standard protocols such as in particular http, SMTP, FTP, POP, IMAP, TELNET, P2P, for analyzing the content transported by the protocol, and for reconstituting the intercepted documents.

2. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents according to claim 1, characterized in that wherein~~ the analyzer means unit and the processor means unit comprise a first table for setting up a connection and containing for each connection being set up an identifier "connectionId" and a flag "connectionState", and a second table for identifying containers and containing, for each connection that has already been set up, an identifier "connectionId" and a

reference "containerRef" identifying the container dedicated to storing the data extracted from the frames of the connection having the identifier "connectionId".

3. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 2, ~~characterized in that wherein~~ the flag "connectionState" of the first table for setting up connections can take three possible values depending on whether the detected packet corresponds to a connection request made by a client, to a response made by a server, or to a confirmation made by the client.

4. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 1, ~~characterized in that wherein~~ the first packet interception ~~means~~unit, the packet header analyzer ~~means~~unit, the automaton creator ~~means~~unit, the packet processor ~~means~~unit, and the ~~means~~unit for analyzing the content of data stored in the containers operate in an independent and asynchronous manner.

5. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 1, ~~characterized in that it further comprises~~further comprising a first storing module for storing the content of documents intercepted by the module for intercepting and processing packets, and a second storing module for storing information relating to at least the sender and the destination of intercepted documents.

6. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 5, ~~characterized in that it further comprises~~further comprising a third storing module for storing information relating to the components that result from detecting the content of intercepted documents.

7. (CURRENTLY AMENDED) A system comprising a processor unit for accessing a memory storing instructions therein that when executed by the processor unit intercepts ~~for intercepting~~ multimedia documents disseminated from a first network, the system comprising ~~being characterized in that it comprises~~ a module for intercepting and processing packets of information each including an

identification header and a data body, the packet interception and processing module comprising a first means-unit for intercepting packets disseminated from the first network, a unit means-for analyzing the headers of packets in order to determine whether a packet under analysis forms part of a connection that has already been set up, a unit means-for processing packets recognized as forming part of a connection that has already been set up to determine the identifier of each received packet and to access a storage container where the data present in each received packet is saved, and a unit means-for creating an automaton for processing the received packet belonging to a new connection if the packet header analyzer ~~means-show-unit shows~~ that a packet under analysis constitutes a request for a new connection, the ~~means-unit~~ for creating an automaton ~~comprise-in-particular~~ comprising a unit means for creating a new storage container for containing the resources needed for storing and managing the data produced by the ~~means-unit~~ for processing packets associated with the new connection, a triplet comprising <identifier, connection state flag, storage container> being created and being associated with each connection by said ~~means-unit~~ for creating an automaton, and ~~in that it further comprises~~ said system further comprising a unit means-for analyzing the content of data stored in the containers, for recognizing the protocol used from a set of standard protocols such as in particular http, SMTP, FTP, POP, IMAP, TELNET, P2P, for analyzing the content transported by the protocol, and for reconstituting the intercepted documents, the system ~~being characterized in that it further comprises~~ comprising a centralized system comprising a unit means-for producing fingerprints of sensitive documents under surveillance, a unit means-for producing fingerprints of intercepted documents, a unit means-for storing fingerprints produced from sensitive documents under surveillance, a unit means-for storing fingerprints produced from intercepted documents, a unit means-for comparing fingerprints coming from the ~~means-unit~~ for storing fingerprints produced from intercepted documents with fingerprints coming from the ~~means-unit~~ for storing fingerprints produced from sensitive documents under surveillance, and a unit means-for processing alerts, containing the references of intercepted documents that correspond to sensitive documents.

8. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 7, ~~characterized in that it includes further comprising~~ a selector means-unit responding to the

~~means-unit~~ for processing alerts to block intercepted documents or to forward them towards a second network, depending on the results delivered by the ~~means-unit~~ for processing alerts.

9. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 7, ~~characterized in that wherein~~ the centralized system further comprises a unit means for associating rights with each sensitive document under surveillance rights, and a unit means for storing information relating to said rights, which rights define the conditions under which the document can be used.

10. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 1, ~~characterized in that it is~~ interposed between a first network of the LAN type and a second network of the LAN type.

11. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 1, ~~characterized in that it is~~ interposed between a first network of the Internet type and a second network of the Internet type.

12. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 1, ~~characterized in that it is~~ interposed between a first network of the LAN type and a second network of the Internet type.

13. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 1, ~~characterized in that it is~~ interposed between a first network of the Internet type and a second network of the LAN type.

14. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 13, ~~characterized in that it further comprises~~ comprising a generator for generating requests from sensitive documents to be protected, in order to inject requests into the first network.

15. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 14, ~~characterized in that wherein~~ the request generator comprises:

- a unit means for producing requests from sensitive documents under surveillance;
- a unit means for storing the requests produced;
- a unit means for mining the first network with the help of at least one search engine using the previously stored requests;
- a unit means for storing the references of suspect files coming from the first network; and
- a unit means for sweeping up suspect files referenced in the ~~means-unit~~ for storing references and for sweeping up files from the neighborhood, if any, of the suspect files.

16. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 7, ~~characterized in that wherein said means-unit~~ for comparing fingerprints deliver a list of retained suspect documents having a degree of pertinence relative to sensitive documents, and the alert processor means-deliver-unit delivers the references of an intercepted document when the degree of pertinence of said document is greater than a predetermined threshold.

17. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 7, ~~characterized in that it further comprises~~ comprising, between said means-unit for comparing fingerprints and said means-unit for processing alerts, a calculating module for calculating the similarity between documents, which calculating module comprises:

- a) a unit means for producing an interference wave representing the result of pairing between a concept vector taken in a given order defining the fingerprint of a sensitive document and a concept vector taken in a given order defining the fingerprint of a suspect intercepted document; and
- b) a unit means for producing an interference vector from said interference wave enabling a resemblance score to be determined between the sensitive document and the suspect intercepted document under consideration, the ~~means-unit~~ for processing alerts delivering the references of a suspect intercepted document when the value of the resemblance score for said document is greater than a predetermined threshold.

18. (CURRENTLY AMENDED) The system ~~for intercepting multimedia documents~~ according to claim 7, ~~characterized in that it further comprises~~ comprising, between said ~~means-unit~~ means-unit for comparing fingerprints and said ~~means-unit~~ means-unit for processing alerts, a calculating module for calculating similarity between documents, which calculating module comprises ~~means-a~~ unit for producing a correlation vector representative of the degree of correlation between a concept vector taken in a given order defining the fingerprint of a sensitive document and a concept vector taken in a given order defining the fingerprint of a suspect intercepted document, the correlation vector enabling a resemblance score to be determined between the sensitive document and the suspect intercepted document under consideration, the ~~means-unit~~ means-unit for processing alerts delivering the references of a suspect intercepted document when the value of the resemblance score for said document is greater than a predetermined threshold.

19. (CURRENTLY AMENDED) A system comprising a processor unit for accessing a memory storing instructions therein that when executed by the processor unit intercepts ~~for intercepting multimedia documents~~ disseminated from a first network, the system ~~being characterized in that it comprises~~ comprising a module for intercepting and processing packets of information each including an identification header and a data body, the packet interception and processing module comprising a first ~~means-unit~~ means-unit for intercepting packets disseminated from the first network, a unit ~~means~~ for analyzing the headers of packets in order to determine whether a packet under analysis forms part of a connection that has already been set up, a unit ~~means~~ for processing packets recognized as forming part of a connection that has already been set up to determine the identifier of each received packet and to access a storage container where the data present in each received packet is saved, and a unit ~~means~~ for creating an automaton for processing the received packet belonging to a new connection if the packet header analyzer ~~means-show-unit~~ shows that a packet under analysis constitutes a request for a new connection, the ~~means-unit~~ means-unit for creating an automaton ~~comprise in particular comprising~~ a unit ~~means~~ for creating a new storage container for containing the resources needed for storing and managing the data produced by the ~~means-unit~~ means-unit for processing packets associated with the new connection, a triplet comprising <identifier, connection state flag, storage container> being created and being associated with each connection by said ~~means-unit~~ means-unit for creating an automaton, and ~~in that it the system~~ further

~~comprises comprising a unit means~~ for analyzing the content of data stored in the containers, for recognizing the protocol used from a set of standard protocols such as ~~in particular~~ http, SMTP, FTP, POP, IMAP, TELNET, P2P, for analyzing the content transported by the protocol, and for reconstituting the intercepted documents, wherein ~~the system being characterized in that~~ the first packet interception ~~means~~unit, the packet header analyzer ~~means~~unit, the automaton creator ~~means~~unit, the packet processor ~~means~~unit, and the ~~means-unit~~ for analyzing the content of data stored in the containers operate in an independent and asynchronous manner, and ~~in that it wherein the system~~ further comprises a first storing module for storing the content of documents intercepted by the module for intercepting and processing packets, and a second storing module for storing information relating to at least the sender and the destination of intercepted documents.